

WHAT IS CLAIMED IS:

1. An organic EL pixel circuit for controlling application of a drive voltage to a plurality of organic EL pixels, wherein a discharge transistor is provided for discharging charges accumulated in a capacitor of an organic EL element.

2. An organic EL pixel circuit according to claim 1, wherein

said organic EL pixels are arranged in a matrix and the pixels in a row direction are selected by a same gate line, and

said discharge transistor is driven by a gate line which is selected at a timing prior to the selection of the gate line at the row of the EL element to which said discharge transistor is connected, to discharge the charges accumulated in the capacitor of the organic EL element.

3. An organic EL pixel circuit according to claim 1, wherein

said organic EL pixels are arranged in a matrix and the pixels in a row direction are selected by a same gate line, and

said discharge transistor is driven by a dedicated discharge line which is activated at a timing prior to the selection of the gate line at the row of the EL element to

which said discharge transistor is connected, to discharge the charges accumulated in the capacitor of the organic EL element.

5 4. An organic EL pixel circuit according to claim 1, wherein

 said organic EL pixels are arranged in a matrix and each of the pixels emits light of a color which is predetermined for each pixel, and

10 a discharge transistor for a pixel which emits light of a color with a low emission efficiency is provided within a pixel which emits light of a color with a higher emission efficiency.

20 20210220 504405 021202 15 5. An organic EL pixel circuit according to claim 1, wherein

 each of said pixels includes a storage capacitor for holding a control voltage to be applied to a drive transistor which controls application of a drive current to the organic EL element, and

 each of said pixels further includes a control transistor for controlling the control voltage held in the storage capacitor to turn the drive transistor off.

25 6. An organic EL pixel circuit according to claim 5, wherein

 said control transistor is driven simultaneously with

said discharge transistor to turn the drive transistor off at the time of driving said discharge transistor.

7. An organic EL pixel circuit according to claim 5,
5 wherein

said control transistor is driven prior to said discharge transistor to turn the drive transistor off prior to driving of said discharge transistor.

10 8. An organic EL pixel circuit according to claim 5,
wherein

said organic EL pixels are arranged in a matrix and each of the pixels emits light of a color which is predetermined for each pixel, and

15 a control transistor for a pixel which emits light of a color with a lower emission efficiency is provided within a pixel which emits light of a color with a higher emission efficiency.